WHAT IS CLAIMED IS:

1	An apparatus for collection and lateral flow chromatography of an		
2	oral fluid, the apparatus comprising:		
3	a lateral flow chromatography strip including a receiving area;		
4	a capillary matrix having a surface; and		
5	a bite portion coupled to the capillary matrix and insertable between		
6	teeth of a subject to position the surface of the capillary matrix for receiving an oral fluid of		
7	the subject, the capillary matrix being in communication with the lateral flow		
8	chromatography strip to wick up and fleliver the received oral fluid to the receiving area of		
9	the lateral flow chromatography strip.		
1	2. The apparatus of claim 1, wherein the bite portion positions the		
2	capillary matrix in a buccal space of the subject.		
1	3. The apparatus of claim 1, wherein the capillary matrix is sheet-like in		
:s 2	shape and the bite portion comprises a bite plate disposed substantially perpendicular to the		
1 3	capillary matrix.		
 -	4. The apparatus of claim 1, wherein the bite portion comprises textured		
2	surfaces for contacting the teeth.		
1	5. The apparatus of claim 1, wherein the bite portion comprises a saliva-		
2	stimulating substance.		
1	6. The apparatus of claim 5, wherein the saliva-stimulating substance is		
2	selected from the group consisting of citric acid, tartaric acid, fumaric acid, ascorbic acid,		
3	malic acid, salt, fructose, glucose, sucrose, and artificial sweetener, and aromatic compound		
1	7. The apparatus of claim 1, wherein the bite portion is insertable		
2	between the teeth of the subject to contact a tongue of the subject.		
1	8. The apparatus of claim 1, wherein the bite portion is insertable		
2	between the teeth in prokimity to the tongue of the subject		

1	9. The apparatus of claim 1, further comprising a nousing naving a
2	cavity in which the lateral flow chromatography strip is at least partially disposed.
1	10. The apparatus of claim 9, wherein the housing includes at least one
2	inspection site providing visual inspection of reagents at selected sites on the lateral flow
3	chromatography strip.
1	11. The apparatus of claim 9, wherein the housing is connected to the bite
	· · · · · · · · · · · · · · · · · · ·
2	portion.
1	12. The apparatus of claim 9, wherein the housing is connected to the
2	capillary matrix.
2 1 1 1 2 2	13. The apparatus of claim 9, wherein the capillary matrix is insertable
ູ້ 2	partially into the cavity of the housing which acts as a handle for inserting the capillary
3	matrix into an oral cavity of the subject.
= 1	14. The apparatus of claim 1, wherein the lateral flow chromatography
<u> </u>	strip includes lateral flow chromatography reagents.
	15. The apparatus of claim 1, further comprising a conjugate strip coupled
1 2	/
	between the capillary matrix and the lateral flow chromatography strip and including lateral
3	flow chromatography reagents.
1	16. The apparatus of claim 1, further comprising a blocking strip coupled
2	between the capillary matrix and the lateral flow chromatography strip and including a
3	detergent.
3	
1	17. The apparatus of claim 16, wherein the blocking strip further includes
2	a buffer.
1	18. The apparatus of claim 1, further comprising an absorbent material
2	coupled near an end of the lateral flow chromatography strip opposite from the capillary
3	matrix.

	1	19.	The apparatus of claim 1, further comprising a cover for protecting the
	2	capillary matrix.	
	1	20.	The apparatus of claim 1, wherein saturation of the capillary matrix
	2	with an oral fluid do	bes not substantially alter the morphology of said capillary matrix.
	1	21.	The apparatus of claim 20, wherein saturation of the capillary matrix
	2	with an oral fluid do	bes not substantially alter the average pore size of said capillary matrix.
	1	22.	The apparatus of claim 20, wherein saturation of the capillary matrix
M. Miss. Mass. W. II.	2	with an oral fluid do	bes not substantially alter the void volume of said capillary matrix.
	1	23.	The apparatus of claim 20, wherein the capillary matrix has an
	2	average pore size ra	nging from about 40 μm to about 250 μm.
ACT OF THE	1	24.	The apparatus of claim 20, wherein the capillary matrix has a void
H 25.11	2	volume of less than	about 60 μ L.
4	1	25.	The apparatus of claim 1, wherein the capillary matrix comprises a
	2	plastic.	
	1	26.	The apparatus of claim 25, wherein the capillary matrix comprises a
	2		n the group consisting of a polyethylene (PE), a polyester, a polystyrene,
	3		ethylene (HDPE), an ultra-high molecular weight polyethylene (UHMW)
	4		P), a polyvinylidene fluoride (PVDF), a polytetrafluoroethylene (PTFE),
	5	a nylon 6 (N6), and	a polyethersulfone (PES).
	1	27.	The apparatus of claim 25, wherein the plastic is hydrophilic or
	2	treated to be hydrop	
	1	28.	The apparatus of claim 1, wherein the capillary matrix, when
	2		l mucosa takes up oral fluid from the subject and releases the oral fluid to
	3	the receiving area	of the lateral flow chromatography strip in under about 2 minutes.

1	29. The apparatus of claim 28, wherein the capillary matrix, when
2	contacted to an oral mucosa takes up oral fluid from the subject and releases the oral fluid to
3	the receiving area of the lateral flow chromatography strip in under about 30 seconds.
1	30. The apparatus of claim 28, wherein the capillary matrix is saturated
2	with oral fluid in under about 1 minute.
1	The apparatus of claim 1, wherein the capillary matrix is saturated by
2	less than about 300 µL of oral fluid
1	32. The apparatus of claim 31, wherein the capillary matrix is saturated by
2	less than about 100 µL of oral fluid.
1	33. The apparatus of claim 1, wherein the capillary matrix releases the
1 2	oral fluid to the receiving area of the lateral flow chromatography strip without compression
3	of the capillary matrix.
1	34. The apparatus of claim 33, wherein sufficient oral fluid is released to
13 2	saturate the receiving area.
1	35. An apparatus for collection and lateral flow chromatography of an
·÷.2	oral fluid, the apparatus comprising:
3	a lateral flow chromatography strip including a receiving area;
4	a bite portion insertable between teeth of a subject; and
5	collection means coupled to the bite portion to contact an oral mucosa
6	of the subject for receiving oral fluid of the subject, and in communication with the lateral
7	flow chromatography strip for wicking up and delivering the received oral fluid to the
8	receiving area of the lateral flow chromatography strip.
1	36. The apparatus of claim 35, wherein the bite portion comprises a
2	saliva-stimulating substance.
1	37. The apparatus of claim 35, wherein the bite portion is insertable
2	between the teeth of the subject to contact a tongue of the subject.

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1 46. A kit for detection of an analyte in oral fluid of a subject, said kit 2 comprising a container containing the apparatus of claim 1 or the apparatus of claim 35. 1 47. The kit of claim 46, further comprising instructional materials 2 describing the use of said apparatus for detecting said analyte.